CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

(Currently Amended) An image sensor comprising;

a plurality of pixels formed in a semiconductor substrate, each pixel including a light sensitive element:

a micro-lens over each of said light sensitive elements; and

a layer of oxide disposed between the light sensitive elements and the micro-

lenses, wherein the layer of oxide includes raised ridge structures formed from the layer of oxide surrounding each of said micro-lenses, wherein each said raised ridge structure has a triangular cross-section and at least partially supports said micro-lens, wherein the micro-lens overlays a base portion of the raised ridge structure.

- (Original) The image sensor of Claim 1 wherein said raised ridge structure is circular.
- (Previously Presented) The image sensor of Claim 1 wherein said raised ridge structure confines said micro-lens.
- (Original) The image sensor of Claim 1 wherein the micro-lenses are formed from polymethylmethacrylate (PMMA) or polyglycidylmethacrylate (PGMA).
- (Previously Presented) The image sensor of Claim 1 wherein said raised ridge structure has a height of about 0.2 microns.
 - 6. (Cancelled)
- (Original) The image sensor of Claim 1 further including a color filter layer between said micro-lenses and said light sensitive elements.

Attorney Docket No.: 8228P015 2 of 8 Examiner: Peterson, Christopher K. Application No.: 10/603,729 Art Unit: 2622

8. (Currently Amended) A pixel of an image sensor comprising: a light sensitive element formed in a semiconductor substrate;

a micro-lens over said light sensitive element; and

a layer of oxide disposed between the light sensitive element and the micro-lens, wherein the layer of oxide includes a raised ridge structure formed from the layer of oxide surrounding said micro-lens, wherein said raised ridge structure has a triangular cross-section and at least partially supports said micro-lens, wherein the micro-lens overlays a base portion of the raised ridge structure.

- (Original) The pixel of Claim 8 wherein said raised ridge structure is circular.
- (Previously Presented) The pixel of Claim 8 wherein said raised ridge structure confines said micro-lens.
- (Original) The pixel of Claim 8 wherein the micro-lens is formed from polymethylmethacrylate (PMMA) of polyglycidylmethacrylate (PGMA).
- (Previously Presented) The pixel of Claim 8 wherein said raised ridge structure has a height of about 0.2 microns.
 - (Cancelled)
- (Original) The pixel of Claim 8 further including a color filter layer between said micro-lens and said light sensitive element.
- 15. (Currently Amended) A method of forming a pixel of an image sensor comprising:

forming a light sensitive element in a semiconductor substrate; forming a top planarizing layer of oxide over said light sensitive element;

Attorney Docket No.: 8228P015 3 of 8 Examiner: Peterson, Christopher K. Application No.: 10/603,729 Art Unit: 2622

isotropically dry etching the top planarizing layer of oxide to form a raised ridge structure over from said top planarizing layer, said raised ridge structure encompassing said light sensitive element; and

forming a microlens within the interior of said raised ridge structure and over said light sensitive element, wherein said raised ridge structure has a triangular crosssection and at least partially supports said micro-lens, wherein the micro-lens overlays a base portion of the raised ridge structure.

16. (Cancelled)

- 17. (Previously Presented) The method Claim 15 wherein said raised ridge structure confines said micro-lens.
- 18. (Original) The method of Claim 15 wherein said raised ridge structure is a closed shape.
- 19 (Original) The method of Claim 15 further including forming a color filter layer between said micro-lens and said light sensitive element.

Attorney Docket No.: 8228P015 4 of 8 Examiner: Peterson, Christopher K. Application No.: 10/603,729